



Test Report # T12559-01-3 Issue 1
ANSI/ISEA Z89.1-2014
Heapro India Safety Products Pvt. Ltd.
Heapro Eleceli – Industrial Safety Helmet
29 April 2019



Approved by:

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Issued to: Heapro India Safety Products Pvt. Ltd.
 Plot No. 64 Sector 14
 Hsiidc – Imt Bawal, Distt. Rewari - 123501
 Haryana, India

Date: 29 April 2019
 Report: T12559-01-3
 Issue: 1
 Page: 1 of 3

Objective:

Contract testing to ANSI/ ISEA Z89.1-2014 “American National Standard for Industrial Head Protection”.

-Type I, Class E, G & C

Sample(s):

Heapro Eleceli - Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Cap w/ Ratchet Suspension (8 pt.), Non-Vented	32	4/18	ABS	10 May 2018	9A-x

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

Testing procedures as specified within Section 10 of ANSI/ ISEA Z89.1-2014 were followed.

Testing was performed at room temperature 23°C ± 3°C (73.4°F ± 5.4°F) per ANSI/ ISEA Z89.1 – 2014.

Equipment:

Cadex Twin Wire Test Platform
 Envirotronics Model FLX900 Environmental Conditioning Chamber
 Cadex Impact Software V6.9U
 Hanco Dielectric Strength Chamber

Assessment Summary:

Date Tested: 14 May 2018 – 29 May 2018
 Test Performed By: Pete Turpin – Senior Technician

Requirements	Compliant	Non-Compliant
6 Instruction and Marking	Excluded	
7 Performance Requirements		
7.1 Requirements for Type I		
7.1.1 Flammability	X	
7.1.2 Force Transmission	X	
7.1.3 Apex Penetration	X	
7.1.4 Electrical Insulation Requirement		
7.1.4.3 Electrical Insulation Requirement - Class E	X	
7.3 Requirements for Optional Testing	Not Applicable	
7.3.1 Reverse Wearing		
-Force Transmission		
7.3.2 High-Visibility		
7.3.3 Higher Temperature		
7.3.4 Lower Temperature		

Samples as assessed meet the mechanical performance requirements of ANSI/ ISEA Z89.1 2014 for Type I, Class E, G & C.

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Report: T12559-01-3
Issue: 1
Page: 2 of 3

Results:

7.1.1 Flammability

Sample ID	Afterflame (sec)	Pass	Fail
9A-12	0	X	
Specification:	< 5		

7.1.2 Force Transmission

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
9A-1	49 ± 2	5.50	2917	≤ 4450	-	X	
9A-2		5.50	2755		-	X	
9A-3		5.50	2728		-	X	
9A-4		5.50	2820		-	X	
9A-5		5.50	2648		-	X	
9A-6		5.51	2700		-	X	
9A-7		5.50	2753		-	X	
9A-8		5.50	2671		-	X	
9A-9		5.49	2667		-	X	
9A-10		5.50	2847		-	X	
9A-11		5.51	2852		-	X	
9A-12		5.50	2605		-	X	
Average					2747	≤ 3780	
9A-13	-18 ± 2	5.48	3216	≤ 4450	-	X	
9A-14		5.49	3318		-	X	
9A-15		5.50	3403		-	X	
9A-16		5.50	3064		-	X	
9A-17		5.49	3035		-	X	
9A-18		5.50	3267		-	X	
9A-19		5.49	3347		-	X	
9A-20		5.50	3049		-	X	
9A-21		5.51	3422		-	X	
9A-22		5.49	3094		-	X	
9A-23		5.50	3199		-	X	
9A-24		5.49	3202		-	X	
Average			3218	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:
(-) No observation

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 Page: 3 of 3

7.1.3 Apex Penetration

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
9A-25	49 ± 2	7.0	No	-	X	
9A-26		7.0	No	-	X	
9A-27		7.0	No	-	X	
9A-28	-18 ± 2	7.0	No	-	X	
9A-29		7.0	No	-	X	
9A-30		7.0	No	-	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:
 (-) No observation

7.1.4.3 Electrical Insulation Requirements (Class E)

Sample ID	Leakage (mA)	Burn Through (Yes/ No)	Observations	Pass	Fail
9A-1	4.6	No	-	X	
9A-13	4.6	No	-	X	
Specification:	Class E: ≤ 9 mA	No Burn Through Allowed			

Class E - 20,000 volts, 60 Hz, 3 minutes, 30,000 volts no burn through.

Observations:
 (-) No observation

Sample Photographs:



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